



# DIY LASER BUILD - Cost Estimate For 1300x900mm Cutting Area - Single Co2 Laser Machine

LASER

<https://mwlaser.com.au/diy-laser-build/>

November 2019

At Time of Report Exchange Rate AUD \$1.00 = USD \$0.68

	USD	AUD	Web Link
<b>AliExpress &amp; Cloudray Laser</b>			
Inner Sliding Rails 1390	\$600.00	\$792.00	<a href="http://s.click.aliexpress.com/e/dwYJjOEG">http://s.click.aliexpress.com/e/dwYJjOEG</a>
CR90 Co2 Laser Tube Metal Head	\$268.00	\$353.76	<a href="https://www.cloudraylaser.com/collections/cloudray-laser-tube/products/35-45w-720mm-co2-laser-upgraded-metal-head-tube-cr35">https://www.cloudraylaser.com/collections/cloudray-laser-tube/products/35-45w-720mm-co2-laser-upgraded-metal-head-tube-cr35</a>
100W MYJG Series Power Supply with Display	\$135.00	\$178.20	<a href="http://s.click.aliexpress.com/e/n3CSCF3E">http://s.click.aliexpress.com/e/n3CSCF3E</a>
Mechanical Left Set B - with Motors & Drivers	\$270.00	\$356.40	<a href="http://s.click.aliexpress.com/e/2cEMWnJi">http://s.click.aliexpress.com/e/2cEMWnJi</a>
Stepper Motor & Driver 573S09 & 3DM580	\$75.00	\$99.00	<a href="http://s.click.aliexpress.com/e/DSClJBgk">http://s.click.aliexpress.com/e/DSClJBgk</a>
Stepper Motor & Driver 573S15 & 3DM580	\$80.00	\$105.60	<a href="http://s.click.aliexpress.com/e/DSClJBgk">http://s.click.aliexpress.com/e/DSClJBgk</a>
Cloudray Air Pipe Air Hose Outer Diameter 6mm	\$10.00	\$13.20	<a href="http://s.click.aliexpress.com/e/3Hl1b1m">http://s.click.aliexpress.com/e/3Hl1b1m</a>
Cloudray Cable Chains	\$60.00	\$79.20	<a href="http://s.click.aliexpress.com/e/DHmom76u">http://s.click.aliexpress.com/e/DHmom76u</a>
USA CVD Focusing Lens	\$18.00	\$23.76	<a href="http://s.click.aliexpress.com/e/nf15MM24">http://s.click.aliexpress.com/e/nf15MM24</a>
3 Pack x Si Mirrors 25mm	\$21.36	\$28.20	<a href="http://s.click.aliexpress.com/e/kIk0EZy4">http://s.click.aliexpress.com/e/kIk0EZy4</a>
2 x Cloudray Inductive Proximity Sensor Switches	\$12.00	\$15.84	<a href="http://s.click.aliexpress.com/e/sKAsmw5S">http://s.click.aliexpress.com/e/sKAsmw5S</a>
Meanwell Switch Power Supply LRS-75 24V	\$25.00	\$33.00	<a href="http://s.click.aliexpress.com/e/KVl4BSFl">http://s.click.aliexpress.com/e/KVl4BSFl</a>
Meanwell Switching Power Supply LRS-350 36V	\$42.00	\$55.44	<a href="http://s.click.aliexpress.com/e/sP6Clzfa">http://s.click.aliexpress.com/e/sP6Clzfa</a>
Trocen AWC708S Laser Controller	\$162.00	\$213.84	<a href="http://s.click.aliexpress.com/e/4dUxA0JQ">http://s.click.aliexpress.com/e/4dUxA0JQ</a>
135W Air Compressor Electrical Magnetic Air Pump	\$65.00	\$85.80	<a href="http://s.click.aliexpress.com/e/B9gc86us">http://s.click.aliexpress.com/e/B9gc86us</a>
Cloudray Emergency Stop Button	\$8.00	\$10.56	<a href="http://s.click.aliexpress.com/e/Ls9C76UC">http://s.click.aliexpress.com/e/Ls9C76UC</a>

Cloudray Power EMI Filter	\$15.00	\$19.80	<a href="http://s.click.aliexpress.com/e/mRHAkDZQ">http://s.click.aliexpress.com/e/mRHAkDZQ</a>
Ammeter Analog	\$7.00	\$9.24	<a href="http://s.click.aliexpress.com/e/4yBhv6Ms">http://s.click.aliexpress.com/e/4yBhv6Ms</a>
42m Box Hook-up 24AWG Wire (6 Colours)	\$12.00	\$15.84	<a href="http://s.click.aliexpress.com/e/b5KQvzQo">http://s.click.aliexpress.com/e/b5KQvzQo</a>
Cloudray Auto Focus Focusing Sensor Z-Axis	\$7.00	\$9.24	<a href="http://s.click.aliexpress.com/e/bEBdzdTK">http://s.click.aliexpress.com/e/bEBdzdTK</a>
Cloudray Beam Combiner Set	\$68.80	\$90.82	<a href="http://s.click.aliexpress.com/e/c2hWkaAU">http://s.click.aliexpress.com/e/c2hWkaAU</a>
Auto Focus Focusing Sensor Z-Axis	\$34.00	\$44.88	<a href="http://s.click.aliexpress.com/e/bEBdzdTK">http://s.click.aliexpress.com/e/bEBdzdTK</a>
Ultimate Air Assist Kit	\$39.00	\$51.48	<a href="http://s.click.aliexpress.com/e/cpHaqM00">http://s.click.aliexpress.com/e/cpHaqM00</a>
S&A CW5202 Chiller	\$455.00	\$600.60	<a href="http://s.click.aliexpress.com/e/t0O4zyjm">http://s.click.aliexpress.com/e/t0O4zyjm</a>
Hydraulic Gas Spring Strut Lid Lift (Type L)	\$30.00	\$39.60	<a href="http://s.click.aliexpress.com/e/kLLwji4C">http://s.click.aliexpress.com/e/kLLwji4C</a>
<b>eBay Purchases</b>			
AU 12V Power Supply Charger Adapter Transformer 3528 5050 LED Strips 5A-30A	\$9.05	\$11.95	<a href="http://rover.ebay.com/rover/1/705-53470-19255-0/1?ff3=4&amp;pub=5575520346&amp;toolid=10001&amp;campid=5338604017&amp;customid=1798898&amp;mpre=https%3A%2F%2Fwww.ebay.com.au%2Fitm%2FAU-12V-Power-Supply-Charger-Adapter-Transformer-3528-5050-LED-Strips-5A-30A%2F132673253462%3FssPageName%3DSTRK%253AMEBIDX%253AIT%26var%3D432000126889%26_trksid%3Dp2057872.m2749.l2649">http://rover.ebay.com/rover/1/705-53470-19255-0/1?ff3=4&amp;pub=5575520346&amp;toolid=10001&amp;campid=5338604017&amp;customid=1798898&amp;mpre=https%3A%2F%2Fwww.ebay.com.au%2Fitm%2FAU-12V-Power-Supply-Charger-Adapter-Transformer-3528-5050-LED-Strips-5A-30A%2F132673253462%3FssPageName%3DSTRK%253AMEBIDX%253AIT%26var%3D432000126889%26_trksid%3Dp2057872.m2749.l2649</a>
6"Inline Exhaust Silent Fan	\$41.66	\$54.99	<a href="http://rover.ebay.com/rover/1/705-53470-19255-0/1?ff3=4&amp;pub=5575520346&amp;toolid=10001&amp;campid=5338604017&amp;customid=1798898&amp;mpre=https%3A%2F%2Fwww.ebay.com.au%2Fitm%2F6-Hydroponic-Inline-Exhaust-Industrial-Vent-Silent-Fan-Extractor-Duct-Kitchen%2F362709749618%3FssPageName%3DSTRK%253AMEBIDX%253AIT%26_trksid%3Dp2057872.m2749.l2649">http://rover.ebay.com/rover/1/705-53470-19255-0/1?ff3=4&amp;pub=5575520346&amp;toolid=10001&amp;campid=5338604017&amp;customid=1798898&amp;mpre=https%3A%2F%2Fwww.ebay.com.au%2Fitm%2F6-Hydroponic-Inline-Exhaust-Industrial-Vent-Silent-Fan-Extractor-Duct-Kitchen%2F362709749618%3FssPageName%3DSTRK%253AMEBIDX%253AIT%26_trksid%3Dp2057872.m2749.l2649</a>
6x 20pcs/lots 3030 corner fitting angle aluminum connector bracket	\$56.82	\$75.00	<a href="http://rover.ebay.com/rover/1/705-53470-19255-0/1?ff3=4&amp;pub=5575520346&amp;toolid=10001&amp;campid=5338604017&amp;customid=1798898&amp;mpre=https%3A%2F%2Fwww.ebay.com.au%2Fitm%2F20pcs-lots-3030-corner-fitting-angle-aluminum-connector-bracket-fastener-kd%2F352775938185%3FssPageName%3DSTRK%253AMEBIDX%253AIT%26var%3D432000126889%26_trksid%3Dp2057872.m2749.l2649">http://rover.ebay.com/rover/1/705-53470-19255-0/1?ff3=4&amp;pub=5575520346&amp;toolid=10001&amp;campid=5338604017&amp;customid=1798898&amp;mpre=https%3A%2F%2Fwww.ebay.com.au%2Fitm%2F20pcs-lots-3030-corner-fitting-angle-aluminum-connector-bracket-fastener-kd%2F352775938185%3FssPageName%3DSTRK%253AMEBIDX%253AIT%26var%3D432000126889%26_trksid%3Dp2057872.m2749.l2649</a>

			<a href="#">T%26_trksid%3Dp2057872.m2749.l2649</a>
200 pcs M5 Hammer Nut Carbon Steel Aluminum Connector T Fastener	\$7.58	\$10.00	<a href="http://rover.ebay.com/rover/1/705-53470-19255-0/1?ff3=4&amp;pub=5575520346&amp;toolid=10001&amp;campid=5338604017&amp;customid=1798898&amp;mpre=https%3A%2F%2Fwww.ebay.com.au%2Fitm%2F100-pcs-M5-Hammer-Nut-Carbon-Steel-Aluminum-Connector-T-Fastener-Sliding-Nu-S1U2%2F323962646289%3Fhash%3Ditem4b6dadaf11%3Ag%3A%7EQQAOSwGshdt9NU">http://rover.ebay.com/rover/1/705-53470-19255-0/1?ff3=4&amp;pub=5575520346&amp;toolid=10001&amp;campid=5338604017&amp;customid=1798898&amp;mpre=https%3A%2F%2Fwww.ebay.com.au%2Fitm%2F100-pcs-M5-Hammer-Nut-Carbon-Steel-Aluminum-Connector-T-Fastener-Sliding-Nu-S1U2%2F323962646289%3Fhash%3Ditem4b6dadaf11%3Ag%3A%7EQQAOSwGshdt9NU</a>
3030 T-Slot Aluminium (65 Meters)	\$719.70	\$950.00	<a href="http://rover.ebay.com/rover/1/705-53470-19255-0/1?ff3=4&amp;pub=5575520346&amp;toolid=10001&amp;campid=5338604017&amp;customid=1798898&amp;mpre=https%3A%2F%2Fwww.ebay.com.au%2Fitm%2Fmk30x30-3030-profile-t-slot-aluminium-extrusion-1-5-100mm-t-slot-aluminium3030%2F264206661800%3Fhash%3Ditem3d83f1b8a8%3Ag%3AfvUAAOSwHnFVtKXy">http://rover.ebay.com/rover/1/705-53470-19255-0/1?ff3=4&amp;pub=5575520346&amp;toolid=10001&amp;campid=5338604017&amp;customid=1798898&amp;mpre=https%3A%2F%2Fwww.ebay.com.au%2Fitm%2Fmk30x30-3030-profile-t-slot-aluminium-extrusion-1-5-100mm-t-slot-aluminium3030%2F264206661800%3Fhash%3Ditem3d83f1b8a8%3Ag%3AfvUAAOSwHnFVtKXy</a>
2400x1200x1.6mm Aluminium Sheets	\$136.36	\$180.00	<a href="http://rover.ebay.com/rover/1/705-53470-19255-0/1?ff3=4&amp;pub=5575520346&amp;toolid=10001&amp;campid=5338604017&amp;customid=1798898&amp;mpre=https%3A%2F%2Fwww.ebay.com.au%2Fitm%2FAluminium-Sheets-Flat-2400-x-1200-x1-6mm-mill-finish%2F113673695552%3Fhash%3Ditem1a777af140%3Ag%3AuTkAAOSw3UZbDosJ">http://rover.ebay.com/rover/1/705-53470-19255-0/1?ff3=4&amp;pub=5575520346&amp;toolid=10001&amp;campid=5338604017&amp;customid=1798898&amp;mpre=https%3A%2F%2Fwww.ebay.com.au%2Fitm%2FAluminium-Sheets-Flat-2400-x-1200-x1-6mm-mill-finish%2F113673695552%3Fhash%3Ditem1a777af140%3Ag%3AuTkAAOSw3UZbDosJ</a>
<b>Local Suppliers</b>			
Castor Wheels	\$29.55	\$39.00	<a href="http://www.thefastenerfactory.com.au/">http://www.thefastenerfactory.com.au/</a>
Hex Head M5 Bolts 200	\$11.36	\$15.00	<a href="http://www.thefastenerfactory.com.au/">http://www.thefastenerfactory.com.au/</a>
40x40 Steel For Laser Table	\$45.45	\$60.00	<a href="https://robotbuildingsupplies.com.au">https://robotbuildingsupplies.com.au</a>
Screws & Bolts (Approximate Only)	\$45.45	\$60.00	Local Hardware Store
Acrylic Sheets For Enclosure	\$336.57	\$444.27	Local Acrylic Supplier
Misc Electrical Connectors & Parts	\$132.58	\$175.00	Various Local Suppliers
Alloy Fin / Table Blades			Direct Order From Cloudray Requesting Size and Spacing
	<b>USD</b>	<b>AUD</b>	
<b>ESTIMATED TOTAL</b>	<b>\$4,091.29</b>	<b>\$5,400.50</b>	